

0052

4/007/013 2009. Incoming

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COPY

TOPSOIL MOVEMENT & CONSTRUCTION RECORD

PHASE I

UTAHAMERICAN ENERGY

LILA CANYON MINE

December 2008-February 2009

RECEIVED
DEC 17 2008
OEM PRICE FIELD OFFICE



Prepared by

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File in:

☐ Confidential

☐ Shelf

☒ Expandable

Refer to Record No. 0052 Date 09172009
In C 10070013, 2009, Incoming
For additional information

Scope of Work

EIS Environmental & Engineering Consulting (EIS) was hired by UtahAmerican Energy, Inc (UEI) to monitor the removal of topsoil from the Lila Canyon Mine for Phase I construction activities.

Phase I consisted of the following activities:

- Construct stormwater detention ponds. These ponds are needed to contain all runoff coming from disturbed areas.
- Construct portal access road. Due to the length of time required to construct the underground rock slopes, it was necessary to construct the portal access road during Phase I of the construction activities.
- Remove topsoil from the west portion of the coal stockpile area. This area was needed to provide storage space for material generated during the construction of the underground rock slopes.
- Remove topsoil from the warehouse pad area. This area was also needed to provide storage space for material generated from the rock slope construction work.
- Construct employee parking and temporary bathhouse area. This area was needed to provide parking space and bathhouse facilities for the crews developing the rock slopes.

During Phase I activities the follow amounts of topsoil were generated from the various locations:

LOCATION	LOADS	VOLUME (Yd³)
Employee Parking Lot	378	12,110
Portal Road	238	7,622
Storm Water Detention Pond	154	4,943
Small Detention Pond	61	1,940
Coal Stockpile	269	8,601
Warehouse Pad	137	4,385
Topsoil Area	Push with Dozer	646
TOTAL		40,247 Yd³

**LILA CANYON MINE
TOPSOIL & CONSTRUCTION ACTIVITY RECORD**

December 24, 2008 (Mel Coonrod & Matt Serfustini)

The following activities were observed during this visit:

1. Fill material was being removed from the stormwater detention pond. Some topsoil still remains to be removed from the pond area.
2. Work on portal access road was proceeding.
3. Topsoil was being removed from employee parking area.
4. Topsoil had been removed from west end of coal pile area.

PHOTOGRAPHS



LOOKING SOUTH TOWARDS TOPSOIL STORAGE AREA



MATERIAL REMOVED FROM TOPSOIL STORAGE SITE



**PORTAL ACCESS ROAD TOPSOIL NORTH OF COAL STOCKPILE, PHOTO
TAKEN LOOKING EAST**



**SOIL PROFILE ON PORTAL ACCESS ROAD LOOKING NORTH, TAKEN
ADJACENT TO PRIOR PHOTOGRAPH**



**TOPSOIL REMOVAL SOUTH END OF EMPLOYEE PARKING LOT
LOOKING SOUTH EAST**



SOUTH OF LOADOUT STATION LOOKING NORTH



SOUTH OF LOADOUT STATION LOOKING SOUTH



SOIL PROFILE AT THE SAME LOCATION AS THE TWO PREVIOUS PHOTOGRAPHS



BOULDER REMOVAL SOUTH OF LOADOUT STATION LOOKING NORTH



EMPLOYEE PARKING AREA LOOKING SOUTH

December 30, 2008(Tom Paluso)

The following activities were observed during my site visit:

1. Fill material was being removed from portal access road. Contractor was working on side slopes on the portal access road.
2. Topsoil was being removed from employee parking area and delivered to the topsoil storage area.
3. Contractor was breaking large rocks on west end of coal storage pile. The large rocks were being reduced to make it easier to obtain necessary compaction with fill material being deposited in this area.

PHOTOGRAPHS



TOPSOIL REMOVAL FROM EMPLOYEE PARKING AREA



LOOKING SOUTHWEST OVER PROJECT AREA

January 7, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Contractor was transporting topsoil from office area to topsoil site.
2. Portal access road grade was being lowered northeast of employee's parking area.
3. Hydraulic hoes were working on portal area.

The stormwater detention pond still has approximately 15 percent of the topsoil to be removed. This material is located in the southeast corner of the pond. According to Shane Campbell this material was intentionally left to provide work during bad weather conditions. Shane also mentioned that topsoil removal at the warehouse site should probably start on January 15 or 16.

PHOTOGRAPHS



TOPSOIL REMOVAL FROM OFFICE AREA



BOULDERS BEING SEPARATED FROM TOPSOIL MATERIAL



LOWER PORTAL ACCESS ROAD GRADE



FILL MATERIAL BEING REMOVED FROM PORTAL ACCESS ROAD



HYDRAULIC BACKHOES WORKING ON PORTAL AREA

January 15, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Large boulders are being crushed to make gravel for this project.
2. Boulders are being stockpiled at future coal stockpile site. These boulders will be crushed into gravel.
3. Work on the portal area is still in progress.

PHOTOGRAPHS



BOULDERS BEING CRUSHED INTO GRAVEL



CRUSHED GRAVEL PILE



BOULDERS BEING STOCKPILED FOR CRUSHING

January 28, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing material from north end of parking lot.
2. Removing topsoil from stacking tube area.
3. Employee parking lot grading.

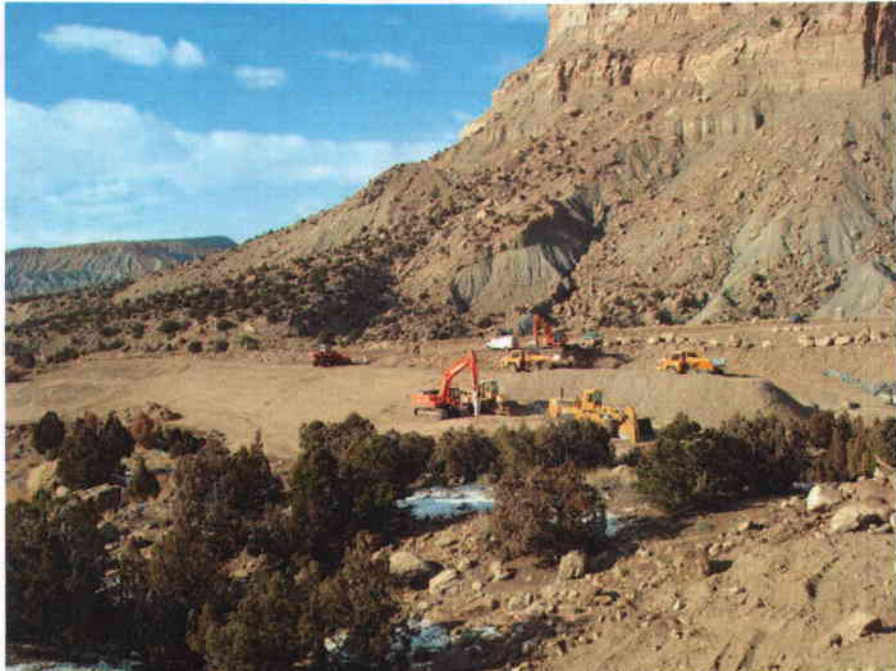
PHOTOGRAPHS



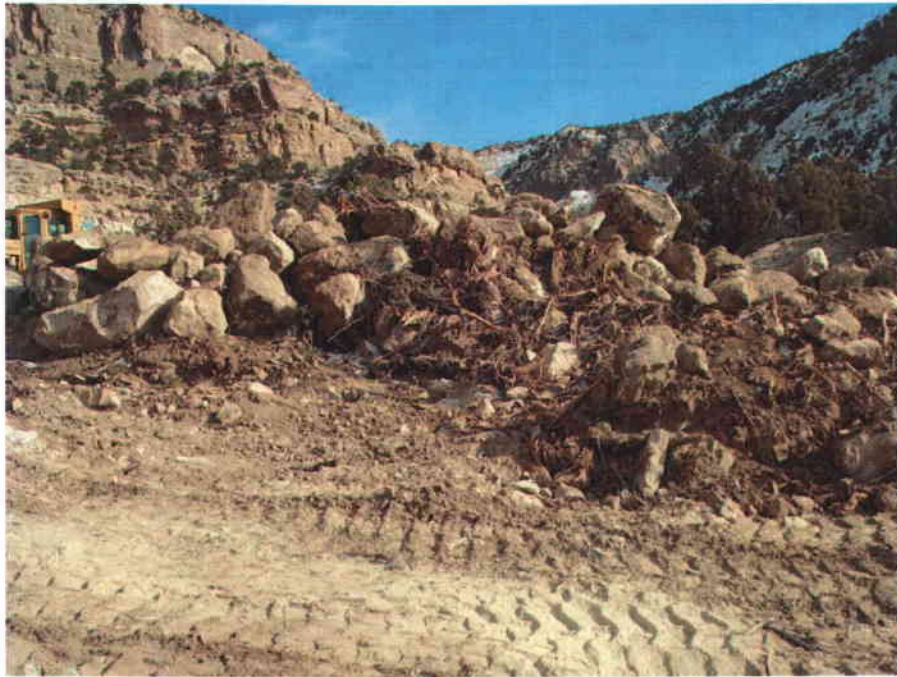
PARKING LOT MATERIAL REMOVAL



FINAL GRADING WEST END OF EMPLOYEE PARKING AREA



EMPLOYEE PARKING LOOKING NORTH WITH CRUSHED GRAVEL PILE



BOULDER REMOVAL FROM STACKING TUBE AREA LOOKING EAST



TOPSOIL REMOVAL FROM STACKING TUBE AREA LOOKING NORTH



STACKING TUBE AREA LOOKING EAST TOWARDS PORTALS



EAST OF STACKING TUBE LOOKING WEST

January 29, 2009 (Tom Paluso)

The following activities were observed during site visit:

- 1 Removing material from north end of parking lot.
- 2 Removing topsoil from stacking tube area.
- 3 Employee parking lot grading.

PHOTOGRAPHS



TOPSOIL PROFILE BY STACKING TUBE AREA



CLOSE-UP OF TOPSOIL PROFILE

February 6, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from shop-warehouse area.
2. Completing work around silo area.

PHOTOGRAPHS



**LOOKING SOUTHEAST FROM SILO AREA, TOPSOIL IS BEING
COLLECTED**



COLLECTING BOULDERS AND VEGETATION



LOOKING NORTHEAST FROM SILO AREA, TOPSOIL HAS BEEN REMOVED

February 18, 2009 (Tom Paluso)

The following activities were observed during site visit:

1. Removing topsoil from small Stormwater Detention Pond.
2. Removing remaining topsoil from large Stormwater Detention Pond.
3. Working on final grade for Portal Access Road

PHOTOGRAPHS



**SIGN LOCATED BY CONSTRUCTION OFFICE & NEAR SMALL
STORMWATER DETENTION POND**



**COLLECTING TOPSOIL AT SMALL STORMWATER RETENTION POND
(SRP)**



COLLECTING TOPSOIL AT SMALL SRP



REMOVING BOULDER FROM SMALL SRP



NORTHEAST SOIL PROFILE



SOUTHEAST SOIL PROFILE



**REMOVE REMAINING MATERIAL FROM LARGE STORMWATER
RETENTION POND (SRP)**



WEST END LARGE SRP



FINAL WORK ON PORTAL ROAD



TOPSOIL PILE LOOKING NORTHEAST



TOPSOIL PILE LOOKING SOUTH EAST